



# The Raleigh Amateur Radio Society's **EXCITER**

## GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the First Tuesday of each month.



## PUBLIC SERVICE EVENTS

Interested in helping? Visit  
<http://www.rars.org/public-service.php>

frequently for our 2017  
ham public service  
schedule.

## RARS General Meeting

**Topic:** RARS auction. The auctioneer is  
Charles A. Davis Sr. WA3UTC.

**Date:** October 10, 2017

**Time:** Meeting at 7:30PM

*Informal gathering and refreshments from 7 - 7:30 p.m.*

**Where:** Ridge Road Baptist Church. 2011 Ridge Rd., Raleigh

New HAM / Elmer meeting, 6:00 p.m. before member meeting

Tadd Torborg, KA2DEW, Elmer Coordinator

[Click here for more information.](#)

## President's Message

RARS President's Message

October 2017

It's time to get that last minute shack cleaning and purging completed in time for the RARS Auction. The auction will be held at the October meeting. Those items no longer of use to you may be just what your fellow club member is looking for his own shack or mobile setup. Of course it's also a chance for you to snag that rare boat anchor you've been eyeing on the online auction site. Items on the block at the RARS

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## RARS Officers

### **PRESIDENT**

Dennis Keith  
NC4DK  
919-803-7973  
[NC4DK@yahoo.net](mailto:NC4DK@yahoo.net)

### **VICE PRESIDENT**

Tom Lewis  
N4TL  
[N4TL2@yahoo.com](mailto:N4TL2@yahoo.com)

### **SECRETARY**

Bob Chapman  
NC1X  
919.782.5778  
[NC1X@nc.rr.com](mailto:NC1X@nc.rr.com)

### **TREASURER**

Greg Seamster  
KE4PAX  
919.859.0029  
[KE4PAX@arrl.net](mailto:KE4PAX@arrl.net)



## The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website ([www.rars.org](http://www.rars.org)).

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## ***Exciter***

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at [www.rars.org](http://www.rars.org). Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor ([editor@rars.org](mailto:editor@rars.org))

## For Your Information

### RARS General Meeting

Date: **Second** Tuesday of each month

Location: Ridge Road Baptist Church 2011  
Ridge Road Raleigh, NC, 27607

Time: People begin arriving at 7 p.m. The  
meeting officially begins at 7:30 p.m.

### RARS Monthly Dinner

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the Golden Corral Restaurant, 6129 Glenwood Ave., Raleigh. Informal and Dutch, just bring your appetite and best rag to chew. 73, Chuck, K4HF

### RARS Repeaters in Raleigh

146.640 and 444.525

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

There is a net Listing on the RARS website click here. <http://www.rars.org/nets.php>

### VE Testing

The RARS VEs will accept walk-in testing in February, May, August and November at 5:30PM, prior to RARS membership meetings at Ridge Road Baptist Church; the RARSfest in April; the Cary Swapfest in July; the JARS-Fest in November; and following RARS license classes. Please bring a photo ID, your original and a copy of your current license, your \$14 exam fee, and any valid CSCEs that prove passing elements beyond that of your current license. Visit [www.rars.org](http://www.rars.org) for more information.

## President's Message continued

Auction run the gamut in the area of ham radio and computer gear. Maybe there will be a gently used mobile rig or a good handheld for next year's public service season. RARS does not take a commission on the sales so all proceeds go to the seller. In addition, many items are donated to the club, meaning that RARS keeps all proceeds from the sale

At the September meeting, there were several stories of club members who were involved in traffic handling during Hurricane Irma in Florida, Puerto Rico, and other areas. Thanks to those who offered your equipment, services, and skills to those in need.

The RARS Technician license is now in progress with a full class load. Soon we will be adding more names to the list of licensed hams in the area. I want to take this opportunity to welcome those new hams and those who will become members of RARS.

73,

Dennis

NC4DK

## RARS CLUB SHIRTS

Many of our members are wearing the blue RARS shirt. You can too, just go to the RARS website at [RARS.org](http://RARS.org) for details. Join your fellow members and "Get Blue."

Look for this just below the center of the RARS website main page.

Your RARS Shirts can be ordered from Supreme T-Shirts and Apparel in Garner. An order form is available on the RARS [Members Only](#) page.

Questions should be referred to [Murray Merner, K4MHM](#).

Thanks to Murray for sending this.

## Amateur Radio Operators Stepped In To Help Communica- tions With Puerto Rico

Volunteer HAM operators have set up informal radio networks to connect family and friends with their loved ones in Puerto Rico. NPR's Kelly McEvers talks to one of those volunteers, Greg Dober. Click on this link.

<http://www.npr.org/2017/09/29/554600989/amateur-radio-operators-stepped-in-to-help-communications-with-puerto-rico>

## RARS October Birthdays

|          |        |       |
|----------|--------|-------|
| Kathryn  | KM4RNE | 10/01 |
| Jerry    | W2GLA  | 10/02 |
| Pete     | K4PHS  | 10/02 |
| Olivia   | KG4IYI | 10/02 |
| Jay      | KM4EP  | 10/02 |
| Kathleen | KA2SBC | 10/06 |
| Gary     | KM4TCT | 10/08 |
| Todd     | AG4AY  | 10/08 |
| Gale     | K4GGB  | 10/10 |
| Scott    | W4JSK  | 10/10 |
| Frank    | KY4W   | 10/11 |
| Pamela   | KM4WRN | 10/13 |
| David    | WA4DAG | 10/14 |
| Tommy    | KK4OIH | 10/17 |
| Candy    | NC4CJ  | 10/18 |
| Gary     | KN4AQ  | 10/22 |
| Curt     | W4CP   | 10/23 |
| Lou      | W2ROW  | 10/27 |
| Bill     | WA3FHM | 10/27 |
| Chuck    | K4RGN  | 10/27 |
| Glen     | KN4FIB | 10/30 |

## New RARS Members

|                |              |
|----------------|--------------|
| John Hirth     | W2KI         |
| Patrick Darke  | W4NMS        |
| Derek Borrer   | Not Licensed |
| Joshua Steele  | KB3VKH       |
| Bill Croninger | Not Licensed |

## RARS Meeting Door Prize Winners



L to R: Rick, KB4RZ; Dennis, WZ0Q; David WA4DAG; Joshua, KF4ZXK and Bill, KK4QDZ

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## September 12, 2017 RARS meeting Presentation



Charles Davis, WA3UTC, presented a program

“Bring ‘Em Back from the Dead” about his work restoring old radios.



## September 12, 2017 RARS meeting



Waiting for the meeting to start

## Future RARS 2017 Meeting Topics

Titles, topics, and speakers subject to change.

|            |                                                                                                                               |                                                        |
|------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 10/10/2017 | RARS Officers nominations<br>RARS Auction                                                                                     | Election committee &<br>Charles A. Davis Sr.<br>WA3UTC |
| 11/14/2017 | RARS Officers election and digital mode WSPR<br>WSPR (pronounced "whisper") stands for<br>"Weak Signal Propagation Reporter." | Election committee &<br>Tom McKee, K4ZAD               |
| 12/12/2017 | RARS pot luck Holiday party.<br>Sign up at the RARS website.<br>RARS Officers induction.                                      | Election committee                                     |

*New HAM / Elmer meeting, 6:00 p.m. before the  
member meeting*

*Tadd Torborg, KA2DEW, Elmer Coordinator*

*The New Hams meeting is held every month before the regular  
RARS meeting. We'll try to start by 6pm. We try to address topics  
in a manner that will be of help to hams in their first year of oper-  
ation.*

*Tadd / KA2DEW  
tadd@mac.com  
Raleigh NC FM05pv*



The August new Hams meeting was about  
[Anderson Power Pole connectors](#) for DC power.

# RARS Auction

The RARS auction will be Tuesday October 10, 2017.

You can preregister your items at the RARS website until midnight Monday October 9, ([rars.org/AuctionForm2.php](http://rars.org/AuctionForm2.php)).

On October 10, Check-in and Registration starts at 6:45 PM.

I will print both a label and an auctioneer's slip for all items that have been preregistered. When you arrive find me and I will give you your labels and auctioneers slips. Put the labels on your equipment and put the equipment on one of the numbered tables. Write the number of the table on the auctioneer's slips. Then give the auctioneers slips back to me or to our auctioneer.

If there is a reserve price on the item, it will not be on the label. It will be on the auctioneer's slips.

Preregistration will end at midnight on October 9. I will print all labels and auctioneer slips Tuesday before the meeting and bring them to the meeting.

Don't forget to bring Cash, ones, fives, tens and twenties.

73 Tom N4TL



## Sharing Amateur Radio Via Social Media:

Facebook: To some it's a tool to be avoided to others it's the one thing that gets seen more times a day than friends and family. Whether you love or hate Facebook there is no denying the impact it has made in our society today. It has become a tool that businesses and organizations use to bring interested parties into their operating reality and The Raleigh Amateur Radio Society is no different.

The official RARS Facebook page has recently reached a very active status. If you have not been on lately then take a moment to check it out. You will see monthly postings for our meetings and dinners, upcoming classes, and even public service events. These postings are very important because they reach out to those who might be interested in Amateur radio but do not know where to start, as well as inform the Ham Community to events they would be interested in.

But just having these items posted on the RARS home page is not enough. We need your help as a club to push these postings past our home page and out into the world. Once it's posted on the RARS Facebook homepage it will appear on the newsfeed of our followers-those who have LIKED RARS on Facebook.

Once you see a post from us you can click SHARE and post it to your own wall. Once you share a post to your wall it will appear in the newsfeed of your connections and helps promote the hobby.

Can't see our posts? That's an easy fix. You can go to the Raleigh Amateur Radio page and click LIKE and FOLLOW to see our posts, or open your Facebook, find our page, and (if on a phone) scroll at the top until you see POSTS. That will help you find our most recent postings if they are not appearing on your feed or if you feel like you maybe missing them.

Sharing not only promotes the club it also promotes the hobby. Sharing our meetings and classes helps to find those who may be interested in knowing more and gives them an opportunity to find out. Promoting public service help other Ham in the area see community outreach that they can participate in without being a member of our club. Sharing events, like the Rarsfest, assist in more ticket sales.

**Find us on Facebook, Like Us, Follow Us, and Share Us!!! Help your club, your hobby, and your community!**

**73, Tara, W4TSW** 2018 Rarsfest Co-Chair

## NTS Gathering at Shelby Hamfest 2017

At the Shelby Hamfest, September 2, 2017, Dave Roy W4DNA, NC Section Traffic Manager spoke at a gathering of NTS traffic handlers. Bob Morehead WA4VEG, president of the Shelby Amateur Radio Club that sponsored Shelby Hamfest, joined us for our gathering. We enjoyed the rare opportunity to see friends face to face, some for the very first time.

Joanne AA3N



Row 1 l-r: Dave W4DNA, Clyde WC9CW, John W4CC, Joe W3OJO,  
Joanne AA3N, Paul KD4OZI.

Row 2 l-r: David KW4PD, Steve KA4CZL, Carl W8WZ.

Row 3 l-r: Hal WB4ZIQ, Bob WA4VEG, Tim N4IB.

Row 4 l-r: Mike KE4AHC, Dale K4HGG.

Row 5 l-r: Bill W4EDN, Will K4IWW, John KC4PGN.

Photo credit: Bill AK4BL.

## Technician Class Hands on Demonstration Session

We had about 12 students plus N4TL, NC4DK and W8WZ on location at St. Christopher's Episcopal Church in Garner for an optional hands on demonstration session of the current RARS technician licensing course. That is slightly more than half of the total students in the course. Some church members, including the priest, stopped by during the demonstration and welcomed us to the property. I think we made a good impression of ham radio on them. We are grateful for their letting us use the location free of charge.



Seven Students

Tom took over the HF side of things and led the students in building and erecting an Inverted V based on a QST article by Steve Ford WB8IMY. After some initial difficulties in tuning the



Carl, W8WZ and four Students

antenna, Tom operated on HF and contacted several stations on 40 Meter SSB using his ICOM 7300. Some students talked over the radio with Tom as the control op and others enjoyed watching and learning. Carl brought an ICOM 735 so the students could compare and contrast a state of the art rig with an older (and much more affordable rig) as they begin thinking about their equipment choices.





Carl explaining something about the VHF station

Carl and Dennis took a group of students across the church parking lot and set up a 2 meter FM station to work through the local repeaters at one of the church's picnic tables. We demonstrated a 1/4 ground plane antenna, a 3 element beam and a 1/4 wave mag mount antenna. We explained how repeaters worked and opened up an old Regency HR2A transceiver to show the transmit and receive portions of the radio and demonstrate how the relay switches between them. For

the rest of the demonstration the group used a new Alinco 2 meter rig. The battery Carl had brought turned out to be bad, so fortunately one of the students had a 12 VDC jump start kit in his car and we used that to get on the air. We made contact with AA3N on the 146.88 repeater who sent the class a radiogram encouraging them on their entry into ham radio. The class then learned about the NTS and radio grams and one of the students wrote a radiogram to his dad in Matthews, NC and W8WZ sent that Radiogram to AA3N who will send it on to the NC Evening net, where it will go to the Central North Carolina Traffic Net and then be delivered.

The students then switched over to the 146.64 repeater where they talked to RARS Elmer coordinator Tad KA2DEW and Justin AJ4MJ. The students took turns talking and most of them got over their mike fright enough to talk on the air.



The leaning inverted Vee antenna

Continued from the previous page

The students also got to look through a box of discrete components and see pictures of the schematic symbols for the different components so that they could see what the components look like and how they are represented in schematic diagrams.

The event concluded at noon with words of appreciation from the students. Many said they liked that we had trouble getting the dipole to work at first because it showed them how to trouble shoot a problem and how to make adjustments. Others said they were impressed at how easy it was to set up a 2 meter station that could work so well. All said they learned a lot.

We look forward to welcoming each of these students as new hams when they pass their technician tests in a couple of weeks!

73, Carl W8WZ

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## Future Hamfests

A full list of Hamfests can be found at the [ARRL website](#).

10/08/2017 | Maysville Hamfest

Location: Maysville, NC

Type: ARRL Hamfest

Sponsor: Maysville Hamfest Association

<http://www.arrl.org/hamfests/maysville-hamfest-7>

11/19/2017 | [JARSFest 2017](#)

Location: Benson, NC

Type: ARRL Hamfest

Sponsor: Johnston Amateur Radio Society

Website: <http://www.jars.net>

03/31/2018 | [North Carolina State Convention \(Raleigh Hamfest\)](#)

Location: Raleigh, NC

Type: ARRL Convention

Sponsor: Raleigh Amateur Radio Society

Website: <http://rars.org/hamfest>





## **RADIO MERIT BADGE COUNSELOR NEEDED**



Do you like to talk about Ham Radio? Would you like to teach Boy Scouts about the propagation and introduce them to the many facets of the hobby and help them earn the Radio Merit Badge?

Well, this is your chance!

The largest Merit Badge clinic on the east coast takes place every year in November in our area. This year there will be 11 different venues in Raleigh, Wake Forest, Knightdale, Zebulon, Apex, Cary, Morrisville, Garner Fuquay Varina, Henderson and Pittsboro. The dates for this event are Friday, November 10<sup>th</sup> and Saturday, November 11<sup>th</sup>.

This is the 10<sup>th</sup> year for the Merit Badge clinic. Last year there were over 70 different merit badges offered. 939 boy scouts were registered to work on 1991 merit badges.

These scouts came from 199 troops in Georgia, South Carolina, North Carolina, Virginia, Tennessee, Maryland, and New York. The staff was made up of 223 adult volunteers.

This event is free to all scouts, however, participants are asked to bring cans or boxes of non-perishable food to donate to institutions who provide food to those in need. Last year over 3500 pounds of food was donated to over 10 different organizations.

Becoming a Merit Badge counselor is easy, the biggest thing you have to have is a desire. Once you have that, there are a few prerequisites to be properly recognized as a merit badge counselor with the BSA, none of these prerequisites are difficult or cost any money.

The Prerequisites are:

You have to register with the Boy Scouts of America (<http://www.scouting.org/filestore/pdf/524-501.pdf>). This is simply filling out this form.

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You have to fill out a Merit Badge Counselor Information form (<http://www.scouting.org/filestore/pdf/34405.pdf>)

You have to be proficient in the merit badge subject by vocation, avocation, or special training.

Every merit badge counselor must take the on-line BSA Youth Protection Training every two years.

<http://www.scouting.org/Training/YouthProtection.aspx>

There is a one-time Merit Badge Counselor training that you must attend.

That's it! It seems like a lot, but really it is not.

The Radio Merit Badge has four different options for scouts. Scouts only need to complete one of these areas.

- Radio Broadcasting
- Shortwave and Medium-Wave listening
- Amateur Radio
- Amateur Radio Direction Finding.

The last two options would probably be most applicable to this group. The list of requirements for the Radio Merit Badge is here: <http://meritbadge.org/wiki/index.php/Radio>

For more information about the Merit Badge Clinic you can point your browser to: <http://ldsmeritbadgeclinic.com>

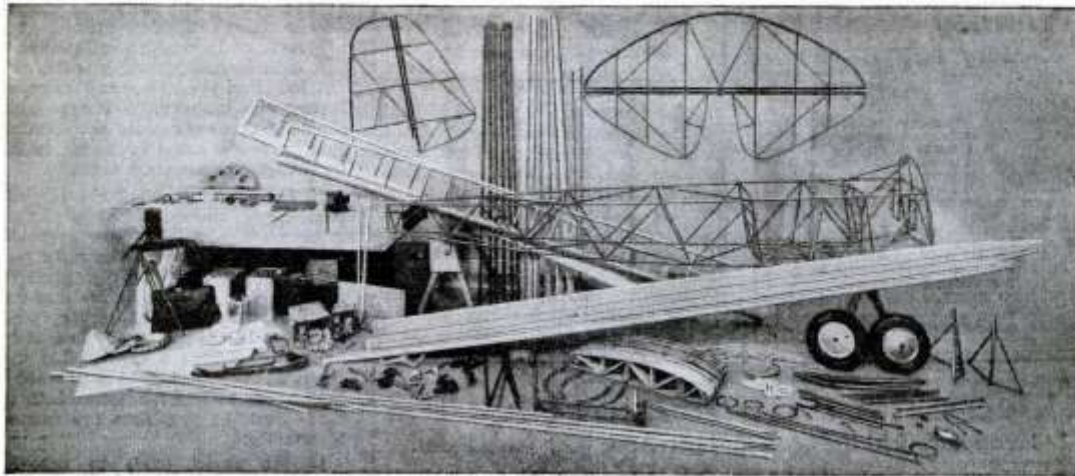
If you have any questions or are interested in becoming a Merit Badge counselor and teaching the Radio Merit Badge, please contact me as soon as possible so we can start the process.

73, Rob

[N4MN@arrl.net](mailto:N4MN@arrl.net)

PS. Don't forget JOTA on October 21<sup>st</sup> from 10:00am!





NEW HEATH CENTER WING

You who want to fly for pleasure or business, you who want a position in this marvelous new field of aviation—either building or flying planes—here is a message of real importance.

Heath presents you the ideal way to get started. Build your own airplane from a Heath Kit. Learn valuable information about airplane construction. Save money on the production of your own ship—or make a profit on one you can sell.

Above is an actual photograph of just how the complete kit comes to you for building either the Heath L. N. Parasol or C. N. Center Wing Airplane. The hard work is all done. The steel tube fuselage, tail group, landing gear, struts and control assembly are all completely shaped and welded. The ailerons and ribs are ready to install. All other parts are formed and cut to fit. All holes are drilled. You have only to assemble the parts, cover and paint your ship.

### Government Approved

The Heath Kit is so complete and practical that it has merited the approval of the U. S. Department of Commerce. Your airplane built from the new Heath Kit according to the simple instructions which accompany the parts, will be eligible for a Federal license when finished. You will be able to fly it anywhere. You can operate your Heath at a fuel expense of about 1c a mile, and the upkeep is negligible.

# THE IDEAL way to FLY!

### Flyaway Ships

Factory built airplanes, ready to fly, are now offered at new low prices. These ships, made by experienced pilot mechanics—men who have had years of flying experience—are now priced lower than ever before. The Heath is by far the lowest priced Approved Type Airplane, yet it has the same splendid workmanship, fine materials, and perfection of detail that are found in more costly ships. In appearance and performance the Heath leaves nothing to be desired.

Price of the B-4 powered Parasol model LNB-4—  
now only.....\$ 925.00  
Parasol with Continental A-40 engine, model LNA-40 1085.00  
Center Wing model CNA-40..... 1095.00

### Easy To Buy, Easy to Fly

The complete kit for either Model, less motor, comes for \$399.00. You can have it shipped all at one time or sent in separate groups at a slight increase in price. The first of these shipments comes for \$16.00. The balance may be ordered and paid for as needed.

Write today for literature describing in detail, Heath Planes and the new Assembly Kits. Kindly specify whether interested in Kits or Flyaway Ships.

**International Aircraft Corporation**  
Dept. R-333, Niles, Michigan  
Successors to  
**Heath Aircraft Corporation**



# HEATH

## AIRCRAFT

## Two New Bands, 630 and 2200 meters

Ham radio operators are now allowed to use the two new bands, but only after they have registered at a website. Even if a ham does not intend to operate on the new bands, it is good to register as the registration means that the power companies can't begin using those frequencies in the future, thus preserving them for amateur use.

**CQ MF/LF Editor John Langridge, KB5NJD/WG2XIQ**, reports that the FCC has authorized amateur radio use of the 630 and 2200-meter bands, effective October 16, 2017, providing registration procedures have been followed and no objections are received within 30 days.

The PLC (Power Line Communications) database is live and hams may begin registering immediately. They may begin operating on 472 kHz (630 meters) and 137 kHz (2200 meters) as early as October 16 if they register today and receive no objection in the next 30 days. Hams may not operate on the bands without going through this process.

The link to the sign-up page is here:

<https://utc.org/plc-database-amateur-notification-process/>

The effective date for use of the new bands by amateurs was published in today's Federal Register. The relevant pages are at: <https://www.gpo.gov/fdsys/pkg/FR-2017-09-15/pdf/2017-19578.pdf>

The FCC's Public Notice is at: [http://transition.fcc.gov/Daily\\_Releases/Daily\\_Business/2017/db0915/DA-17-893A1.pdf](http://transition.fcc.gov/Daily_Releases/Daily_Business/2017/db0915/DA-17-893A1.pdf)

John is asking all amateurs to register, even if they don't plan to use these bands in the near future, as the FCC rules prohibit UTC (the Utilities Technology Council) from deploying PLC in these bands closer than 1 kilometer from registered stations. Registration now will protect your ability to use our new MF/LF bands in the future.

73 Carl , W8WZ



# Minutes

## Raleigh Amateur Radio Society

### Board of Directors Meeting

June 20, 2017

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The Board of Directors of the Raleigh Amateur Radio Society met Tuesday, June 20, 2017, at Ridge Road Baptist Church. President Dennis NC4DK called the meeting to order at 7:08 p.m.

Present: Dennis NC4DK, Chuck K4HF, Carl W8WZ, Joanne AA3N, Marty W4MY. Greg KE4PAX, John K3RHJ, Bill AK4BL and Bob NC1X; also guests Tara KM4ZSZ and Alan AB4OZ

A quorum being present, approval of the minutes of the May 16, 2017 Board of Directors meeting was moved, seconded, and approved.

Vice President: Tom: not present

Treasurer: Greg KE4PAX: Current membership is 411 including 15 honorary members. The board reviewed the financial condition of the Society. Donations were made to ARRL and TRRS. In the last 4 years we gave out 140+ complimentary memberships. For additional details contact Greg.

Secretary: Bob NC1X – (Health & Welfare) - Larry Young K4LXV is feeling good but unable to get around. He would like some help selling his amp.

#### Directors Reports:

Public Service (John K3RHJ): This is a slack month. The Ice Cream Ride was cancelled this year. Many events are still scheduled this summer.

Education (Carl W8WZ): The technician class was a success. A General class will follow soon, and there will be a new Technician class in the fall. Contact Carl at [w8wz@aol.com](mailto:w8wz@aol.com) for details.

PIO (Charles KM4AMT): Not present.

Immediate Past President (Murray K4MHM): Not present.

FM Repeater (Karl W4CHX): Not present.

Minutes continued from the previous page

Director at Large (Joanne AA3N): No report.

Director at Large (Marty W4MY): No report.

Director at Large (Raymond NC4OO): Not present.

Other Reports:

Scouting Coordinator (Charles KM4AMT): Not present.

Exciter Chair (Tom N4TL): not present

Food Service Chair (Bill AK4BL): No report.

ARRL Liaison (Chuck K4HF): We applied to the ARRL for the RARSfest to be the NC State convention. Ian NO1AN will be chair for the paperwork.

ARRL Section (Karl W4CHX): Not present.

Webmaster (Hank K4HM): Not present.

RARSfest Chair (Ian NO1AN): Not present.

Field Day Chair (Marty W4MY): We are ready to set up on the 23<sup>rd</sup>. Field day operation starts at 2:00 pm on Saturday the 24<sup>th</sup>.

NC QSO Party (Marty W4MY): The next QSO Party will be the last weekend in February 2018. Our next planning meeting with South Carolina is in September.

W4DW/W4RNC Trustee (Jeff AC4ZO): Not present.

Net Manager (Mary KG4OQA): Not present.

Old Business: W4MY brought up the saying of the Pledge of Allegiance at member meetings. He has visited other clubs that do so. Marty moved that membership meetings be opened by reciting the Pledge of Allegiance. His motion was seconded and approved. Dennis NC4DK will introduce this to the membership at the next meeting.

Minutes continued from the previous page

New Business: Wake tech has changed their rental policy to require a Certificate of Insurance. Carl W8WZ will convey the policy to Wake Tech. Our insurance policy has been amended to include the Police Club for Field Day. Tara proposed that the club should have a Facebook presence. Dennis will contact Justin AJ4MJ to have Tara added as a moderator.

The next Board meeting will be Tuesday, July 18, at 7:00 p.m. at the church.

The meeting was adjourned by President Dennis at 8:47 p.m.

Respectfully submitted,

Robert E Chapman, NC1X

RARS Secretary

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# Minutes

Raleigh Amateur Radio Society

Board of Directors Meeting

July 18, 2017

The Board of Directors of the Raleigh Amateur Radio Society met Tuesday, July 18, 2017, at Ridge Road Baptist Church. President Dennis NC4DK called the meeting to order at 7:03 p.m.

Present: Dennis NC4DK, Chuck K4HF, Marty W4MY, Greg KE4PAX, John K3RHJ, and Bob NC1X; also guest Alan AB40Z.

A quorum not being present, approval of the minutes of the June 20, 2017 Board of Directors meeting was postponed until the next meeting.

Vice President: Tom N4TL: not present. The presentation schedule remains unchanged.

Treasurer: Greg KE4PAX: Current membership is 283 including 15 honorary members. The board re-

Minutes continued from the previous page

viewed recent transactions and the financial condition of the Society. For additional details contact Greg.

Secretary: (Bob NC1X): - no report.

Public Service (John K3RHJ): Turnout for the two events so far was low but adequate. Brian KA9QJT reports via e-mail that the Velo4Yellow ride was held on July 15, and the Cup-n-Cone ride will be Saturday July 29. Three events are scheduled in August.

Education (Carl W8WZ): Not present. In an e-mail Carl reports Wake Tech accepted our insurance certificate. The General class has begun with Mike WA4BPJ as the instructor. This class will end August 5 with a VE session by the RARS VE Team. There will be a new Technician class in the fall beginning Saturday, Sept. 16<sup>th</sup>.

We cannot use Wake Tech on September 30<sup>th</sup> so Carl wants to have a Demo Day then, but he needs a location, preferably in Raleigh. Contact Carl at [w8wz@aol.com](mailto:w8wz@aol.com) to suggest a location.

PIO (Charles KM4AMT): Not present.

Immediate Past President (Murray K4MHM): Not present.

FM Repeater (Karl W4CHX): Not present. By e-mail Karl reports he is concerned about the delays being encountered with the repairs and restoration of the RARS repeaters. Karl and Chuck W3WZN are working on this and will report progress to the Board.

Director at Large (Joanne AA3N): Not present. Joanne corresponded with Mary KG4OQA, and Mary is planning to contact the current RARS net controls to find a new net manager from among them.

Director at Large (Marty W4MY): Marty commented on the first Pledge of Allegiance occurrence at the General Meeting last Tuesday (July 11). Carl W8WZ is acquiring for club use a flag that has flown over the US Capitol.

Director at Large (Raymond NC4OO): Not present.



Minutes continued from the previous page

Other Reports:

Scouting Coordinator (Charles KM4AMT): Not present.

Exciter Chair (Tom N4TL): Not present. The due date for Exciter articles is July 29.

Food Service Chair (Bill AK4BL): Not present.

ARRL Liaison (Chuck K4HF): The HOA Antenna bill has been re-introduced to the Senate. We should expect a request from the ARRL to petition our senators.

ARRL Section (Karl W4CHX): Not present.

Webmaster (Hank K4HM): Not present. By e-mail Hank reports that due to increased interest in Facebook he has added a "RARS@FB" icon to the top of the right column on the RARS webpage. He is updating the RARS calendar and solicits from the members any items, especially repeating ones, that should be included on the calendar.

RARSfest Chair (Ian N0IAN): Not present. We will be an ARRL state convention next year.

Field Day Chair (Marty W4MY): All went well. We had 48 participants plus visitors. We scored about 9000 points.

NC QSO Party (Marty W4MY): The next QSO Party will be the last weekend in February 2018. Our next planning meeting with South Carolina is in September. The Biltmore Estate may become a bonus station next year.

W4DW/W4RNC Trustee (Jeff AC4ZO): Not present.

Net Manager (Mary KG4OQA): Not present.

Old Business – none.

New Business – Dennis wondered if RARS as a club ever participated in contests. Field Day is not a contest. The NC QSO party is like one.

Minutes continued from the previous page

The next Board meeting will be Tuesday, August 15, at 7:00 p.m. at the church.

The meeting was adjourned by President Dennis at 8: p.m.

Respectfully submitted,

Robert E Chapman, NC1X

RARS Secretary

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# Minutes

## Raleigh Amateur Radio Society

### Board of Directors Meeting

### August 15, 2017

The Board of Directors of the Raleigh Amateur Radio Society met Tuesday, August 15, 2017, at Ridge Road Baptist Church. President Dennis NC4DK called the meeting to order at 7:10 p.m.

Present: Dennis NC4DK, Chuck K4HF, John K3RHJ, and Bob NC1X; also guests Alan AB4OZ and Tara KM4ZSZ.

A quorum not being present, approval of the minutes of the June 20, 2017 and July 18, 2017 Board of Directors meetings were postponed until the next meeting.

Vice President: Tom N4TL: (not present). The presenter at the September 12 meeting will be Charles Davis WA3UTC, who will speak on old radio restoration in a program titled "Bring 'em back from the dead."

Treasurer: Greg KE4PAX: (not present) Greg reports by e-mail current membership is 304 including 15 honorary members. The board reviewed recent transactions and the financial condition of the Society. For additional details contact Greg.

Minutes continued from the previous page

Secretary: (Bob NC1X): - no report.

Public Service (John K3RHJ): Three events are scheduled in August.

Education (Carl W8WZ): Not present. There will be a new Technician class in the fall beginning Saturday, Sept. 16<sup>th</sup>.

PIO (Charles KM4AMT): Not present.

Immediate Past President (Murray K4MHM): Not present.

FM Repeater (Karl W4CHX): Not present.

Director at Large (Joanne AA3N): Not present

Director at Large (Marty W4MY): Not present.

Director at Large (Raymond NC4OO): Not present.

Other Reports:

Scouting Coordinator (Charles KM4AMT): Not present. A request has been made by Chris W4CEC for assistance with Scout activities in October 2018. Tara will refer him to Charles KM4AMT or Murray K4MHM.

Exciter Chair (Tom N4TL): Not present. The due date for Exciter articles is the end of this month.

Food Service Chair (Bill AK4BL): Not present.

ARRL Liaison (Chuck K4HF): The HOA Antenna bill has been re-introduced to the Senate. We should expect a request from the ARRL to petition our senators.

ARRL Section (Karl W4CHX): Not present.

Minutes continued from the previous page

Webmaster (Hank K4HM): Not present. By e-mail Hank reports that he needs a soft copy of the current brochure. Dennis will ask Charles KM4AMT to send a copy to Hank. Hank also forwarded a quotation from a RARSfest feedback form in which a vendor recommended that the RARSfest pages on the website be updated or refreshed. Hank is therefore working on this request but has not finalized any recommendation/action.

RARSfest Chair (Ian N0IAN): Not present.

Field Day Chair (Marty W4MY): Not present.

NC QSO Party (Marty W4MY): Not present.

W4DW/W4RNC Trustee (Jeff AC4ZO): Not present.

Net Manager (Mary KG4OQA): Not present.

Old Business – none.

New Business – The President and Secretary are up for new terms. Nominations for these and annual offices are due in October. The election will be in November at the Membership meeting. Dennis appointed Chuck K4HF, Alan AB4OZ, and Dennis Mason WZ0Q to the nominating committee. Nominations will be presented to the membership in October.

The next Board meeting will be Tuesday, September 19, at 7:00 p.m. at the church.

The meeting was adjourned by President Dennis at 8:00 p.m.

Respectfully submitted,

Robert E Chapman, NC1X

RARS Secretary

**Minutes**  
**Raleigh Amateur Radio Society**  
**General Membership Meeting**  
**September 12, 2017**

The monthly membership meeting of the Raleigh Amateur Radio Society met at the Ridge Road Baptist Church in Raleigh. The meeting was called to order by President Dennis, NC4DK, at 7:30 p.m.

The Pledge of Allegiance to the Flag was said.

Alan AB4OZ announced a ham fest in Greensboro Saturday Sept 23rd, and his usual announcement about not saying anything on the radio in advance of an absence. Also, Alan is starting a Hints & Kinks project. Today he showed uses for flooring samples to make mounts and bases.

There were 52 members present, which constituted a quorum. A quorum being present, a motion to accept the minutes of the August 8, 2017 meeting, as published in the Exciter, was made, seconded and approved.

Rob N4NM announced the Jamboree on the Air which will be Oct 21 and invited members to participate. Information is at JOTA.Raleigh @ gmail.com. Hams can also participate remotely by being on the radio at 3923 KHz SSB or the 64 machine (146.64 Mhz FM) to respond to CQs from the Boy Scouts.

Dennis introduced Carl W8WZ who has obtained a flag that flew over the US Capitol on June 30, 2017. Carl presented the flag to the club.

**Continuing Announcements:**

The RARS Dinner takes place monthly on the first Tuesday (next: October 3rd) at 6:30 p.m., at the Golden Corral, 6129 Glenwood Ave.

The RARS Board meeting takes place monthly on the third Tuesday (next: September 19th) at 7:00 p.m. in a conference room here at the Church. Members are invited to attend.

An After-meeting gathering takes place after each Membership meeting, at Applebee's, at Hillsborough and Gorman Streets.

A New Ham/Elmers meeting with new hams and anyone interested takes place before each membership meeting, at 6:00 p.m. at the church.

Guests: Tom N4TL introduced guests William (no call), Margaret Herring (nc), Johnny Johnson (nc), Leland Swanson (nc), and Sam Kirby (nc).



Minutes continued from the previous page

Officers' Reports:

Vice President: (Tom N4TL): You can see all remaining 2017 program subjects in The Exciter. Next month's meeting will be the election of RARS officers and the annual auction. To speed up the auction please preregister on the RARS website if you have something to sell.

Treasurer: Greg, KE4PAX, submitted a Treasurer's Report (attached to file) which shows 332 members this month. Anyone desiring additional treasury information may contact Greg for details.

Secretary: Bob NC1X- Larry Young, K4LXV reports that his illness is in remission but has one more problem to overcome.

Board & Committee Reports:

Education Director (Carl W8WZ): A Technician class will begin at 0800 Saturday September 16, at the Wake Tech campus. It is full but a few more students can be squeezed in. It will meet weekly through October 14 except for Sept 30. VE testing will occur at 1330 on October 14. Carl needs 20 elmers to pair up with the graduates. See the RARS website or contact Carl at w8wz@aol.com .

Public Service (John K3RHJ): PS is winding down for this month. The New Bern event was well attended; 3 events are scheduled in October. The Public Service calendar is at [www.rars.org/public-service.php](http://www.rars.org/public-service.php) .

Field day (Marty W4MY): will be back at the police club.

RARSfest (Ian N0IAN): RARSfest will be on Easter weekend next year (March 31, 2018). Ian is turning over RARSfest leadership to the new chair, Tara Goodwin W4TSW. The emails are sent for staffing and the first planning meeting will be October 23rd.

NC QSO Party (Marty W4MY): The next NC QSO Party will be on the last weekend in February (24 and 25), 2018. There will be a spelling bee and a real prize (\$50).

FM Repeater (Karl, W4CHX): Karl recommends that members put the ReadyNC app on their phones. He says it has much good information on weather, power outages, and road conditions among other things.

At-large Directors: no reports

Old Business: none

New Business: none

Prize drawing – Prizes were won by WA4DAG David, WZ0Q Dennis, KF4ZXK Josh, KB4RZ Rick, and KK4QDZ Bill. NE4II Al donated his prize back to the club for another to win. K4SAN Dave donated a book for a prize.

Minutes continued from the previous page

Program: Tom N4TL introduced Charles Davis, WA3UTC, who presented a program "Bring 'Em Back from the Dead" about his work restoring old radios. Charlie has worked with many old tube radios and amplifiers, says most are worth restoring. Clean the chassis, arrest corrosion, but don't use ammonia based cleaners (NO Windex). Charles showed before & after pictures of many radios. Schematics are always available on the internet. Capacitors frequently need to be replaced, but custom capacitors are available to maintain the original look. Charles showed pictures of cabinet work which he considers as difficult and important as the electronics work. He distributed a handout on Restoration Basics and "Letting the Smoke Out".

The meeting was adjourned by vice president Tom N4TL at 9:05 p.m.

Respectfully Submitted,  
Robert E Chapman, NC1X  
RARS Secretary

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## Amateur Radio Parity Act (ARPA)

Dear ARRL Member:

Based on feedback I've received, it seems to me that some members still don't fully understand certain features of the Amateur Radio Parity Act (ARPA) and what it is meant to do. To make things clearer, we have developed an FAQ in the format of questions and answers. Please take a few minutes and read the FAQ to learn more about the ARPA.

Here is the direct link:

<http://www.arrl.org/files/file/Regulatory/The%20Amateur%20Radio%20Parity%20Act%20FAQ.pdf>

Here is another link with additional information:

<http://www.arrl.org/amateur-radio-parity-act>

Thanks to those of you who have written your Senators in support of the ARPA. If you have not done so, please do so by clicking on the link below. It only takes a minute.

<https://arrl.rallycongress.net/ctas/urge-us-senate-to-support-amateur-radio-parity-act>

Thanks. Let's keep the effort moving!

73, Rick Roderick, K5UR  
President, ARRL - The national association for Amateur Radio®

## Current Public Service Opportunities

To volunteer for a Public Service event please sign up at this location <http://www.rars.org/public-service.php>

*The Ham Public Service Net The HPS Net is on vacation, we will resume when the 2017 PS season begins. We will use the following repeaters in the Carolina 440 Link System:*

441.725(+)(100) – Raleigh, NC Hub  
443.450 (+)(100) – Cane Mt., Snow Camp, NC  
444.325 (+)(100) – Holly Springs, NC  
444.375 (+)(100) - Henderson, NC  
444.550 (+)(100) – Coats, NC  
444.775 (+)(100 – Cary, NC  
444.875 (+)(100) – Wendell, NC  
145.330 (-)(100) – Goldsboro, NC  
442.250 (+)(107.2) - McCain/Southern Pines, NC  
444.200 (+)(179.9) - Johnsonville, NC  
444.025 (+)(100) - Benson, NC  
442.425 (+)(100) - Buxton, NC

*(The net is also accessible through IRLP Reflector 9210)*

*The Ham Public Service Yahoo Group link is: [Ham Public Service North Carolina](#)*

**WELCOME TO THE 2017 HAM PUBLIC SERVICE EVENT SIGNUP PAGE. Choose the event(s) for which you would like to volunteer and complete the sign-up form at the top of the page... note... one form for EACH event that you are volunteering. We are glad you are back. Sign up at this location <http://www.rars.org/public-service.php>**

### **2017 Le Tour de Femme**

**October 14, 2017 - Saturday - Cary, NC**

This women's only bicycle event features 15, 31 and 62 mile routes that benefit REX Hospital Angel Fund and the Kay Yow Cancer Fund. SAGS and Rest Stop Hams are needed.

\* Location: Cycling Spoken Here, 1377 N.W. Maynard Rd. Cary, NC 27513

\* Ham Coordinator: John Stone (K3RHJ)

\* Website: [Le Tour de Femme](#)

## Current Public Service Opportunities continued

### 2017 Fall Rally

**October 22, 2017 - Sunday - Holly Springs, NC**

This bicycle event features 22, 39, 52 and 72 mile routes that benefit the National MS Society. SAGS and Rest Stop Hams are needed.

\* Location: Carolina Brewing Co., 140 Thomas Mill Rd., Holly Springs, NC 27544

\* Ham Coordinator: John Stone (K3RHJ)

\* Website: [Fall Rally](#)

### 2017 CheetahFest

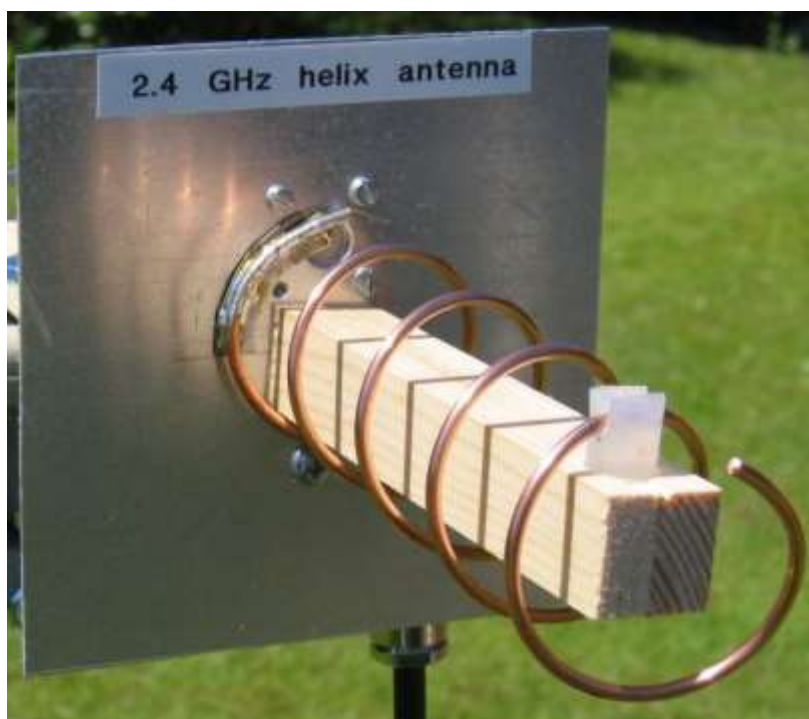
**October 28, 2017 - Saturday - Rougemont, NC**

The bicycle event has 30, 62, 100 mile routes that benefit the American Diabetes Association. SAGS and Rest Stop Hams are needed.

\* Location: Down 2 Earth Farms, 8115 New Sharon Church Rd., Rougemont, NC 27572

\* Ham Coordinator: John Stone (K3RHJ)

\* Website: [2017 CheetahFest](#)



2.4 GHz helix antenna, picture borrowed from the internet

## RARS Classifieds

Copied from [www.rars.org/classifieds.php](http://www.rars.org/classifieds.php)

The items below were listed within the last 30 days on the RARS website.

### **Rohn 25 65' Tower and Antenna System available for Sale**

Posted September 4th, 2017 by: K4HF

Contact: [k4hf@arrl.net](mailto:k4hf@arrl.net)

For RARS Member Greg Rogers, NOGE. This system is one acquired from me last summer and he has determined it will not be installed as planned and is now available for pickup in Angier, NC. Rohn 25 guyed tower with accessories and four Yagi antennas and side mounted dual band vertical covering 40 meters through 440 MHz With documentation.

Contact Greg at grogers001@nc.rr.com Thanks, Chuck

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### **Four items for sale**

Posted September 4th, 2017 by: W4MBD

Contact: [n4tl2@yahoo.com](mailto:n4tl2@yahoo.com)

Yaesu FT-857 compact HF, VHF, UHF Transceiver, never used, \$700

Yaesu Atas-120A Automatic antenna tuner, new in package, \$275

Diesel model 380-136 SWR Power Meter, new, \$20

For more information contact Robert, W4MBD  
at mcneillr@ec.rr.com

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### **Sony ICF-6700W multiband radio**

Posted October 2nd, 2017 by: N4TL

Contact: [n4tl2@yahoo.com](mailto:n4tl2@yahoo.com)

Sony ICF-6700W multiband radio with copies of operating and service manuals. The radio works on all bands. Sometimes the band switch needs to be moved back and forth to make good contact. The AFC switch is broken and is in the ON position. \$225 as is. My number is 919-740-0329, Tom N4TL